

# **Semiconductor and Circuit Manufacturing Market by Component (Memory, MPU, MCU, DSP), Semiconductor (Intrinsic, Extrinsic), Material (Silicon, Germanium), Application (Consumer, Automotive, Industrial, Military and Civil Aerospace) - Global Forecast to 2027**

<https://marketpublishers.com/r/S1D8CDD94E0AEN.html>

Date: June 2020

Pages: 203

Price: US\$ 4,175.00 (Single User License)

ID: S1D8CDD94E0AEN

## **Abstracts**

Semiconductor and Circuit Manufacturing Market by Component (Memory, MPU, MCU, DSP), Semiconductor (Intrinsic, Extrinsic), Material (Silicon, Germanium), Application (Consumer, Automotive, Industrial, Military & Civil Aerospace) – Global Forecast to 2027

The research report titled “Semiconductor and Circuit Manufacturing Market by Component (Memory, MPU, MCU, DSP), Semiconductor (Intrinsic, Extrinsic), Material (Silicon, Germanium), Application (Consumer, Automotive, Industrial, Military & Civil Aerospace) – Global Forecast to 2027” provides in-depth analysis of semiconductor and circuit manufacturing market in five major geographies and emphasizes on the current market trends, market size, market share, recent developments, and forecast till 2027. The semiconductor and circuit manufacturing market will grow at a CAGR of 4.3% from 2020 to 2027 to reach \$522.7 billion by 2027.

The growth in this market is majorly attributed to the factors such as consistent development in semiconductor ecosystem; increasing demand for IT hardware, industrial automation products, consumer electronics including mobile phones, and automotive products; and increasing investment in the research & development activities for the development of semiconductor industry. However, expensive fabrication and global impact of COVID-19 on the semiconductor industry has created

serious challenges for the growth of this market.

The global semiconductor and circuit manufacturing market study presents historical market data (2018 & 2019), estimated current data (2020), and forecasts for 2027. The market is segmented on the basis of component (memory, logic, analog, MPU, optical devices, discrete, microcontroller units, sensors, DSP, others), type (intrinsic semiconductor, extrinsic semiconductor), material type (silicon, germanium, gallium arsenide, silicon carbide, others), and application (data processing electronics, communication electronics, consumer electronics, automotive electronics, industrial electronics, military and civil aerospace). The study also evaluates industry competitors and analyses the market at a country level.

Based on component, the memory device segment is estimated to account for the largest share of the overall semiconductor and circuit manufacturing market in 2020. However, the optical devices segment is expected to witness rapid growth during the forecast period, which is mainly due to the increasing usage of optoelectronics chips in CMOS image sensors for various applications such as embedded cameras, LED lighting solutions, and automotive safety; growing technological advancements; and rapidly transforming market for several residential, commercial, and industrial applications.

Based on application, the data processing electronics segment is estimated to hold the largest share of the overall semiconductor and circuit manufacturing market in 2020. The large share of this segment is mainly attributed to the increasing demand for semiconductors in the data processing electronic devices including PCs, ultra-mobiles, tablets, servers, and storage devices along with its easy integration with these devices. Also, the rapid proliferation of mobile phones and other connected devices is further expected to accelerate the demand for memory card and storage devices, thereby expanding the market for data processing electronics applications.

Geographically, the SCM market is segmented into North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. Asia Pacific region is expected to witness rapid growth during the forecast period, primarily due to the factors such as presence of the world's leading semiconductor players, rapidly growing economy, increase in mobile communications, consistent enhancement in cloud computing, and easy availability of the semiconductor. Moreover, rapid adoption of semiconductor devices in the region, particularly in automobile industry including autonomous cars & electric vehicles; energy industry including solar panel; healthcare industry including medical devices; and consumer electronic industry including mobile phones &

computers is supporting the fastest growth in Asia-Pacific region.

The global semiconductor and circuit manufacturing market is consolidated and dominated by few major players, namely Samsung Electronics Co. Ltd. (South Korea), Intel Corporation (U.S.), Taiwan Semiconductor (Taiwan), SK Hynix Inc. (South Korea), Micron Technology, Inc. (U.S.), Broadcom Ltd. (U.S.), Qualcomm Technologies, Inc. (U.S.), Texas Instruments Inc. (U.S.), Toshiba Corporation (Japan), NVIDIA Corporation (U.S.), ON Semiconductor (U.S.), Advanced Micro Devices, Inc. (U.S.), Analog Devices, Inc. (U.S.), Renesas Electronics Corporation (Japan), and NXP Semiconductors N.V. (Netherlands), among others.

#### Scope of the Report:

#### Market by Component

Memory

Logic

Analog

Micro Processing Unit (MPU)

Optical Devices

Discrete

Micro Controller Unit (MCU)

Sensor

DSP

#### Market by Type

Intrinsic Semiconductor

Extrinsic Semiconductor

P-Type Semiconductor

N-Type Semiconductor

#### Market by Material Type

Silicon

Germanium

Gallium Arsenide

Silicon Carbide

Others

#### Market by Application

Data Processing Electronics

Communication Electronics

Industrial Electronics

Automotive Electronics

Consumer Electronics

Military and Civil Aerospace

#### Market by Geography:

North America

U.S.

Canada

Europe

Germany

U.K.

France

Italy

Spain

Rest of the Europe

Asia-Pacific

Japan

China

South Korea

Taiwan

India

Rest of Asia-Pacific

Latin America

Middle East and Africa

Key questions answered in the report-

Which are the high growth market segments in terms of component, type,

*Semiconductor and Circuit Manufacturing Market by Component (Memory, MPU, MCU, DSP), Semiconductor (Intrinsic,...*

material type, application, and countries?

What was the historical market for semiconductor and circuit manufacturing across the globe?

What are the market forecasts and estimates for the period 2020-2027?

What are the major drivers, restraints, opportunities, and trends in the global semiconductor and circuit manufacturing market?

Who are the major players and their share in the global semiconductor and circuit manufacturing market?

How is the competitive landscape in the global semiconductor and circuit manufacturing market?

What are the different strategies adopted by the major players in the global semiconductor and circuit manufacturing market?

What are the geographic trends and high growth countries?

## Contents

### 1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Ecosystem
- 1.3. Currency and Limitations
  - 1.3.1. Currency
  - 1.3.2. Limitations
- 1.4. Key Stakeholders

### 2. RESEARCH METHODOLOGY

- 2.1. Research Approach
- 2.2. Data Collection & Validation
  - 2.2.1. Secondary Research
  - 2.2.2. Primary Research
- 2.3. Market Assessment
  - 2.3.1. Market Size Estimation
    - 2.3.1.1. Bottom-Up Approach
    - 2.3.1.2. Top-Down Approach
    - 2.3.1.3. Growth forecast
- 2.4. Assumptions for the Study

### 3. EXECUTIVE SUMMARY

- 3.1. Market Overview
- 3.2. Market Analysis, by Component
- 3.3. Market Analysis, by Type
- 3.4. Market Analysis, by Material Type
- 3.5. Market Analysis, by Application
- 3.6. Market Analysis, by Geography
- 3.7. Competitive Analysis

### 4. MARKET INSIGHTS

- 4.1. Introduction
- 4.2. Drivers
  - 4.2.1. Growing Technological Advancements with Rising Acceptance of Connected

## Devices

### 4.2.2. Proliferation of Smartphones

### 4.2.3. Increasing Technological Collaboration

## 4.3. Restraints

### 4.3.1. Impact of COVID-19 Pandemic

## 4.4. Opportunities

### 4.4.1. Adoption of 5G Technology

### 4.4.2. Increasing Investment in Research & Development Activity

## 4.5. Challenge

### 4.5.1. Construction of User-Friendly Design With Thin Film Coating to Maintain Easy Integration

## 4.6. Trend

### 4.6.1. Growing Usage of Connected Devices in Automotive and Home Automation

## 4.7. Impact of COVID-19 Pandemic on Semiconductor and Circuit Manufacturing Market

## **5. GLOBAL SEMICONDUCTOR AND CIRCUIT MANUFACTURING MARKET, BY COMPONENT**

### 5.1. Introduction

### 5.2. Memory

### 5.3. Logic

### 5.4. Analog

### 5.5. Microprocessor (MPU)

### 5.6. Optoelectronics

### 5.7. Discrete

### 5.8. Microcontroller Unit (MCU)

### 5.9. Sensor

### 5.10. DSP

## **6. GLOBAL SEMICONDUCTOR AND CIRCUIT MANUFACTURING MARKET, BY TYPE**

### 6.1. Introduction

### 6.2. Extrinsic Semiconductor

#### 6.2.1. P-Type Semiconductor

#### 6.2.2. N-Type Semiconductor

### 6.3. Intrinsic Semiconductor



## **7. GLOBAL SEMICONDUCTOR AND CIRCUIT MANUFACTURING MARKET, BY MATERIAL TYPE**

- 7.1. Introduction
- 7.2. Silicon
- 7.3. Germanium
- 7.4. Gallium Arsenide
- 7.5. Silicon Carbide
- 7.6. Others

## **8. GLOBAL SEMICONDUCTOR AND CIRCUIT MANUFACTURING MARKET, BY APPLICATION**

- 8.1. Introduction
- 8.2. Data Processing Electronics
- 8.3. Communication Electronics
- 8.4. Industrial Electronics
- 8.5. Automotive Electronics
- 8.6. Consumer Electronics
- 8.7. Military and Civil Aerospace

## **9. GLOBAL SEMICONDUCTOR AND CIRCUIT MANUFACTURING MARKET, BY GEOGRAPHY**

- 9.1. Introduction
- 9.2. North America
  - 9.2.1. U.S.
  - 9.2.2. Canada
- 9.3. Europe
  - 9.3.1. Germany
  - 9.3.2. U.K.
  - 9.3.3. France
  - 9.3.4. Italy
  - 9.3.5. Spain
  - 9.3.6. Rest of Europe
- 9.4. Asia Pacific
  - 9.4.1. Japan
  - 9.4.2. China
  - 9.4.3. South Korea

- 9.4.4. Taiwan
- 9.4.5. India
- 9.4.6. Rest of Asia Pacific
- 9.5. Latin America
- 9.6. Middle East & Africa

## **10. COMPETITIVE LANDSCAPE**

- 10.1. Introduction
- 10.2. Key Growth Strategies
- 10.3. Market Share Analysis

## **11. COMPANY PROFILES (BUSINESS OVERVIEW, FINANCIAL OVERVIEW, PRODUCT PORTFOLIO, STRATEGIC DEVELOPMENTS)**

- 11.1. Samsung Electronics Co., Ltd.
- 11.2. Intel Corporation
- 11.3. Taiwan Semiconductor Manufacturing Company
- 11.4. SK Hynix, Inc.
- 11.5. Micron Technology, Inc.
- 11.6. Broadcom, Inc.
- 11.7. Qualcomm Technologies, Inc.
- 11.8. Texas Instruments, Inc.
- 11.9. Toshiba Corporation
- 11.10. Nvidia Corporation
- 11.11. On Semiconductor
- 11.12. Advanced Micro Devices, Inc. (AMD)
- 11.13. Analog Devices, Inc.
- 11.14. Renesas Electronics Corporation
- 11.15. NXP Semiconductors N.V.

## **12. APPENDIX**

- 12.1. Questionnaire
- 12.2. Available Customization

## List Of Tables

### LIST OF TABLES

Table 1 Currency Conversion Rate, 2016-2019

Table 2 Impact Assessment of Covid-19 on Semiconductor and Circuit Manufacturing Market (\$Billion)

Table 3 Global Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 4 Global Semiconductor and Circuit Manufacturing Market Size, by Country, 2018-2027 (\$Billion)

Table 5 Global Memory Component Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 6 Global Logic Component Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 7 Global Analog Component Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 8 Global Microprocessor Component Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 9 Global Optoelectronics Component Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 10 Global Discrete Component Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 11 Global Microcontroller Unit Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 12 Global Sensor Component Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 13 Global DSP Component Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 14 Global Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 15 Global Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 16 Global Extrinsic Semiconductor Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 17 Global P-Type Semiconductor Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 18 Global N-Type Semiconductor Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 19 Global Intrinsic Semiconductor Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 20 Global Semiconductor and Circuit Manufacturing Market Size, by Material

Type, 2018-2027 (\$Billion)

Table 21 Global Silicon Semiconductor Material Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 22 Global Germanium Semiconductor Material Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 23 Global Gallium Arsenide Semiconductor Material Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 24 Global Silicon Carbide Semiconductor Material Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 25 Global Other Semiconductor Material Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 26 Global Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 27 Global Semiconductor and Circuit Manufacturing Market Size For Data Processing Electronics, by Country/Region, 2018-2027 (\$Billion)

Table 28 Global Semiconductor and Circuit Manufacturing Market Size For Communication Electronics, by Country/Region, 2018-2027 (\$Billion)

Table 29 Global Semiconductor and Circuit Manufacturing Market Size For Industrial Electronics, by Country/Region, 2018-2027 (\$Billion)

Table 30 Global Semiconductor and Circuit Manufacturing Market Size For Automotive Electronics, by Country/Region, 2018-2027 (\$Billion)

Table 31 Global Semiconductor and Circuit Manufacturing Market Size For Consumer Electronics, by Country/Region, 2018-2027 (\$Billion)

Table 32 Global Semiconductor and Circuit Manufacturing Market Size For Military and Civil Aerospace, by Country/Region, 2018-2027 (\$Billion)

Table 33 Global Semiconductor and Circuit Manufacturing Market Size, by Country/Region, 2018-2027 (\$Billion)

Table 34 North America: Semiconductor and Circuit Manufacturing Market Size, by Country, 2018-2027 (\$Billion)

Table 35 North America: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 36 North America: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 37 North America: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 38 North America: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 39 North America: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 40 U.S.: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 41 U.S.: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 42 U.S.: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 43 U.S.: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 44 U.S.: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 45 Canada: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 46 Canada: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 47 Canada: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 48 Canada: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 49 Canada: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 50 Europe: Semiconductor and Circuit Manufacturing Market Size, by Country, 2018-2027 (\$Billion)

Table 51 Europe: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 52 Europe: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 53 Europe: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 54 Europe: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 55 Europe: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 56 Germany: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 57 Germany: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 58 Germany: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 59 Germany: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 60 Germany: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 61 U.K.: Semiconductor and Circuit Manufacturing Market Size, by Component,

2018-2027 (\$Billion)

Table 62 U.K.: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 63 U.K.: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 64 U.K.: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 65 U.K.: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 66 France: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 67 France: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 68 France: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 69 France: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 70 France: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 71 Italy: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 72 Italy: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 73 Italy: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 74 Italy: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 75 Italy: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 76 Spain: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 77 Spain: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 78 Spain: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 79 Spain: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 80 Spain: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 81 Rest of Europe: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 82 Rest of Europe: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)



Table 83 Rest of Europe: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 84 Rest of Europe: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 85 Rest of Europe: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 86 Asia Pacific: Semiconductor and Circuit Manufacturing Market Size, by Country, 2018-2027 (\$Billion)

Table 87 Asia Pacific: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 88 Asia Pacific: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 89 Asia Pacific: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 90 Asia Pacific: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 91 Asia Pacific: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 92 Japan: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 93 Japan: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 94 Japan: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 95 Japan: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 96 Japan: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 97 China: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 98 China: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 99 China: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 100 China: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 101 China: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 102 South Korea: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 103 South Korea: Semiconductor and Circuit Manufacturing Market Size, by

Type, 2018-2027 (\$Billion)

Table 104 South Korea: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 105 South Korea: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 106 South Korea: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 107 Taiwan: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 108 Taiwan: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 109 Taiwan: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 110 Taiwan: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 111 Taiwan: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 112 India: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 113 India: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 114 India: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 115 India: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 116 India: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 117 Rest of Asia Pacific: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 118 Rest of Asia Pacific: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 119 Rest of Asia Pacific: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 120 Rest of Asia Pacific: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 121 Rest of Asia Pacific: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 122 Latin America: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 123 Latin America: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)



Table 124 Latin America: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 125 Latin America: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 126 Latin America: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 127 Middle East & Africa: Semiconductor and Circuit Manufacturing Market Size, by Component, 2018-2027 (\$Billion)

Table 128 Middle East & Africa: Semiconductor and Circuit Manufacturing Market Size, by Type, 2018-2027 (\$Billion)

Table 129 Middle East & Africa: Extrinsic Semiconductor Market Size, by Type, 2018-2027 (\$Billion)

Table 130 Middle East & Africa: Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2018-2027 (\$Billion)

Table 131 Middle East & Africa: Semiconductor and Circuit Manufacturing Market Size, by Application, 2018-2027 (\$Billion)

Table 132 Recent Developments, by Company, 2018-2020

## List Of Figures

### LIST OF FIGURES

Figure 1 Research Process

Figure 2 Primary Research Techniques

Figure 3 Key Executives Interviewed

Figure 4 Breakdown of Primary Interviews (Supply Side & Demand Side)

Figure 5 Market Sizing and Growth Forecast Approach

Figure 6 Key Insights

Figure 7 Memory Devices Dominate the Global Semiconductor and Circuit Manufacturing Market

Figure 8 Extrinsic Semiconductor Type Dominates the Global Semiconductor and Circuit Manufacturing Market

Figure 9 Silicon Material Dominates the Global Semiconductor and Circuit Manufacturing Market

Figure 10 Data Processing Electronics Applications Dominate the Global Semiconductor and Circuit Manufacturing Market

Figure 11 Semiconductor and Circuit Manufacturing Market Overview, by Geography: 2020-2027

Figure 12 Market Dynamics

Figure 13 Global Semiconductor and Circuit Manufacturing Market Size, by Component, 2020-2027 (\$Billion)

Figure 14 Global Semiconductor and Circuit Manufacturing Market Size, by Type, 2020-2027 (\$Billion)

Figure 15 Global Semiconductor and Circuit Manufacturing Market Size, by Material Type, 2020-2027 (\$Billion)

Figure 16 Global Semiconductor and Circuit Manufacturing Market Size, by Application, 2020-2027 (\$Billion)

Figure 17 Global Semiconductor and Circuit Manufacturing Market Size, by Geography, 2020-2027 (\$Billion)

Figure 18 Key Growth Strategies Adopted by Leading Players, 2018-2020

Figure 19 Market Share Analysis, by Leading Players, 2019

Figure 20 Samsung Electronics Co., Ltd.: Financial Overview (2019)

Figure 21 Intel Corporation: Financial Overview (2019)

Figure 22 Taiwan Semiconductor Manufacturing Company: Financial Overview (2019)

Figure 23 SK Hynix, Inc.: Financial Overview (2019)

Figure 24 Micron Technology, Inc.: Financial Overview (2017-2019)

Figure 25 Broadcom, Inc.: Financial Overview (2019)

Figure 26 Qualcomm Technologies, Inc.: Financial Overview (2019)

Figure 27 Texas Instruments, Inc.: Financial Overview (2017-2019)

Figure 28 Toshiba Corporation: Financial Overview (2018)

Figure 29 Nvidia Corporation: Financial Overview (2019)

Figure 30 On Semiconductor.: Financial Overview (2019)

Figure 31 Advanced Micro Devices, Inc.: Financial Overview (2019)

Figure 32 Analog Devices, Inc.: Financial Overview (2019)

Figure 33 Renesas Electronics Corporation: Financial Overview (2019)

Figure 34 NXP Semiconductor N.V.: Financial Overview (2017-2019)

## I would like to order

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